

App. No. 10/057525
Office Action Dated December 29, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Claims 1-15 are amended.

Claim 24 is new.

Listing of Claims:

1. (Currently Amended) A method of securing a panel with a[[n]] moisture cure polyurethane adhesive bonding material, using a hand-held operator manipulatable dispensing device to dispense the adhesive bonding material via a nozzle of the dispensing device, wherein the device including includes an on-board heater arrangement positioned and configured for heating the adhesive bonding material present in the nozzle of [[in]] the dispensing device, the method comprising subjecting the bonding material to a predetermined temperature regime, the predetermined temperature regime having:

(i) a period of heating stage during which the adhesive bonding material in the dispensing device is heated at a predetermined level while present in the nozzle and prior to dispensing from the nozzle of the device, wherein little to no curing of the adhesive bonding material occurs during the heating in the dispensing device stage; and

(ii) a subsequent period of curing in-situ in contact with the glazing panel at a temperature significantly below the heating temperature level in step (i);
wherein the temperature of the adhesive bonding material dispensed via the nozzle is maintained substantially uniform as adhesive is dispensed about the periphery of the panel, and curing of the moisture cure polyurethane adhesive material occurring following the heating stage and dispensing from the nozzle.

2. (Currently Amended) [[A]] The method according to claim 1, wherein the adhesive bonding material is a moisture cure adhesive bonding material.

3. (Currently Amended) [[A]] The method according to claim 1, wherein the predetermined level to which the adhesive bonding material is heated prior to dispensing from the dispensing

App. No. 10/057525
Office Action Dated December 29, 2004

device is substantially at or above 50 °C.

4. (Currently Amended) [[A]] The method according to claim 1, wherein the predetermined level to which the adhesive bonding material is heated prior to dispensing from the dispensing device is substantially in the range 70 °C ± 20 °C.

5. (Currently Amended) [[A]] The method according to claim 1, wherein the temperature of the adhesive bonding material as dispensed is maintained within 5 °C of the ~~desired temperature~~ predetermined level.

6. (Currently Amended) [[A]] The method according to claim 1 wherein the uniform dispensing temperature of the adhesive bonding material dispensed from the device is 70 °C ± 20 °C.

7. (Currently Amended) [[A]] The method according to claim 1, wherein a minor degree of curing of the adhesive bonding material occurs during the period of heating in the dispensing device stage.

8. (Currently Amended) [[A]] The method according to claim 1, wherein a bulk heating technique is utilised to heat the adhesive bonding material.

9. (Currently Amended) [[A]] The method according to claim 1, wherein dielectric heating is used to heat the adhesive bonding material.

10. (Currently Amended) [[A]] The method according to claim 1, wherein microwave heating is used to heat the adhesive bonding material.

11. (Currently Amended) [[A]] The method according to claim 1, wherein Radio Frequency heating is used to heat the adhesive bonding material.

12. (Currently Amended) [[A]] The method according to claim 1, wherein ultrasonic heating is used to heat the adhesive bonding material.

App. No. 10/057525
Office Action Dated December 29, 2004

13. (Currently Amended) [[A]] The method according to claim 1, wherein heating by electromagnetic radiation is used to heat the adhesive bonding material.
14. (Currently Amended) [[A]] The method according to claim 1, wherein following the heating stage and dispensing the adhesive bonding material applied to secure the panel is permitted to cure in situ in ambient conditions.
15. (Currently Amended) [[A]] The method according to claim 1, wherein the heating stage is carried out prior to positioning the panel and adhesive bonding material for securing.
16. (Withdrawn) An applicator device for dispensing adhesive material, the applicator device being hand-held and operator manipulatable and comprising a body portion including a delivery channel for delivery of adhesive bonding material to a dispensing outlet nozzle, the body portion further including an operator actuatable heating arrangement for heating the adhesive bonding material in the channel, internally of the device to a predetermined temperature level to produce a substantially constant outlet dispensing temperature via the nozzle.
17. (Withdrawn) An applicator device according to claim 16, including a drive arrangement to urge the adhesive material along the delivery channel toward the outlet nozzle, actuation of the drive arrangement and the heating arrangement being by means of a common operator manipulatable actuator.
18. (Withdrawn) An applicator device according to claim 16, wherein the heating arrangement is self-contained in a body portion of the applicator device positioned forwardly of the operator manipulatable actuator.
19. (Withdrawn) An applicator device according to claim 16, wherein the heating arrangement comprises a dielectric heating arrangement to heat the adhesive bonding material.
20. (Withdrawn) An applicator device according to claim 16, wherein the heating arrangement comprises a microwave heating arrangement to heat the adhesive bonding material.

App. No. 10/057525
Office Action Dated December 29, 2004

21. (Withdrawn) An applicator device according to claim 16, wherein the heating arrangement comprises a Radio Frequency heating arrangement to heat the adhesive bonding material.
22. (Withdrawn) An applicator device according to claim 16, wherein the heating arrangement comprises an ultrasonic heating arrangement to heat the adhesive bonding material.
23. (Withdrawn) An applicator device according to claim 16, wherein the device is configured to accept the adhesive material in canister or package form.
24. (New) A method of securing a panel with a moisture cure polyurethane adhesive bonding material comprising:
 - delivering the adhesive bonding material to a dispensing outlet nozzle in a hand-held operator manipulatable dispensing device, wherein an on-board heater is positioned and configured for heating the adhesive bonding material present in the dispensing outlet nozzle to a predetermined temperature,
 - heating the adhesive bonding material in the dispensing outlet nozzle to the predetermined temperature,
 - dispensing the adhesive bonding material from the dispensing outlet nozzle after the adhesive bonding material is heated to the predetermined temperature,
 - wherein the temperature of the adhesive bonding material dispensed via the nozzle is maintained substantially uniform as the adhesive bonding material is dispensed about the periphery of the panel,
 - curing the applied adhesive bonding material at a temperature significantly below the heating temperature and under ambient conditions.